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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of

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| Application Number | 109/843,287 RECEIVED |
| Filing Date | Apr 24, 2001 |
| First Named Inventor | Mihcak 0CT 0 8 20 4 |
| Group Art Unit | 2621 |
| Examiner Name | JOHNS, ANDREWINDOV Center 2600 |
| Attorney Docket Number | MS1-794US 2000 |

| | U.S. PATENT DOCUMENTS Classification | | | | | | | | | |
|----------------------|--------------------------------------|--|---|--|--|--|--|--|--|--|
| Examiner Initials | Cite No.1 | U.S. Patent Documer Kind Co Number (if know | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Rages, Columns, Lings, Whiter Relevant Pessages of Relevant Figures Appear | | | | | |
| AN | | 5465353 A | Hull et al. | 11/07/1995 | 395/600 | | | | | |
| AU | | 5613004 A | Cooperman et al. | 03/18/1997 | 380/28 | | | | | |
| AN | | 5664016 A | Preneel et al. | 09/02/1997 | 380/28 | | | | | |
| AHT | | 5689639 A | Schwarz | 11/18/1997 | 395/200.01 | | | | | |
| AT | | 5809498 A | Lopresti et al. | 09/15/1998 | 707/6 | | | | | |
| AV | | 6101602 A | Fridrich | 08/08/2000 | 713/176 | | | | | |
| Att | | 6314192 BI | Chen et al. | 11/06/2001 | 382/100 | | | | | |
| AN | | 6363463 B1 | Mattison | 03/26/2002 | 711/164 | | | | | |
| AAT | | 5875264 🚜 | Carlstrom | 02/23/1999 | 382/181 | | | | | |
| MAI | | 5351310 A | Califano et al. | 09/27/1994 | 382/22 | | | | | |
| Art | | 6321232 BI | Syeda-Mahmood | 11/20/2001 | 707/104 | | | | | |
| ANT | | 5953451 🔏 | Syeda-Mahmood | 09/14/1999 | 382/187 | | | | | |
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| | | FO | REIGN PATENT DOCUMENT | rs | Classification | <i></i> |
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| Examiner Initials | Cite No.1 | Foreign Patent Document Office ³ Number ⁴ (If known) | | Date of Publication of Cited Document MM-DD-YYYY | Rages, Columns, Lines, Where Rejevant Passes or Relevant Figures Appear | T8 |
| AT | | EP 1 253 784 AZ | Microsoft Corporation | 10/30/2002 | HO4N 7/00 | П |
| AN | | WO 02/37331 | Microsoft Corporation | 05/10/2002 | GO6F 17/30 | |
| AAT | | WO 99/17537 A | Hewlett-Packard Company | 04/08/1999 | HOHD 1/32 | П |
| AAT | | WO 99/60514 A | Mass. Inst. of Technology | 11/25/1999 | G06K 9/00 | \Box |
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| Examiner | AAT | ANDREW W. JOHNS | Date | DEC 1 5 2004 |
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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| Group Art Unit | 2621 | 001-00 | 2004 |
| Examiner Name | JOHNS, ANDREY | NAM-hnology o | |
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| NON PATENT LITERATURE DOCUMENTS | | | | | | | |
|---------------------------------|--------------|---|---------------|--|--|--|--|
| Examiner Initials* | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² | | | | |
| AU | | Chang et al., "RIME: A Replicated Image Detector for the World-Wide Web" Proceedings of the SPIE Vol. 3527 2-4 November 1998 pages 58-67. | | | | | |
| AN | | Chen et al., "Achievable Performance of Digital Watermarking Systems" IEEE 1999 pages 13-18. | | | | | |
| AN | | Chen et al., "Quantization Index Modulation Methods for Digital Watermarking and Information Embedding of Multimedia" Journal of VLSI Signal Processing 27 2001 pages 7-33. | | | | | |
| ANT | | Kesal et al., "Iteratively Decodable Codes for Watermarking Applications" Proceedings of the Second Symposium on Turbo Codes and Their Applications France September. 2000 4 pages. | | | | | |
| AF | | Mihçak et al., "Blind Image Watermarking Via Derivation and Quantization of Robust Semi-Global Statistics" Proceedings of IEEE-ICASSP Orlando FL 2002 4 pages. | | | | | |
| AF | | Mihçak et al., "Cryptanalysis of Discrete-Sequence Spread Spectrum Watermarks" Proceedings of the Information Hiding Workshop Holland 2002 21 pages. | - | | | | |
| AN | | Mihçak et al.,"New Iterative Geometric Methods for Robust Perceptual Image Hashing" Proceedings of the Security and Privacy Digital Rights Management Workshop 2001 9 pages. | | | | | |
| ANT | | Mihçak et al.,"Watermarking via Optimization Algorithms for Quantizing Randomized Statistics of Image Regions" Proceedings of the Annual Allerton Conference on Communication Control and Computing Urbana IL 2002 10 pages. | | | | | |
| ANT | | Moulin et al., "The Parallel-Gaussian Watermarking Game" IEEE Transactions Information Theory Feb. 2004 pages 1-36. | | | | | |
| HAS . | | Venkatesan et al., "Image Watermarking with Better Resilience" Proceedings of IEEE-ICIP Vancouver BC Canada 2000 4 pages. | | | | | |
| AD | | Venkatesan et al.,"Robust Image Hashing" Proceedings of the IEEE-ICIP Vancouver BC Canada 2000 3 pages. | | | | | |

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| STATEMENT BY APPLICANT | | | APPLICANT | First Named Inventor | Mihcak |
| • | | • | 711 1 210/111 | Group Art Unit | Tochnology Center 260 |
| | (use as many s | heet | s as necessary) | Examiner Name | 2621 Technology Center 260 JOHNS, ANDREW W |
| Sheet | 3 | of | 3 | Attorney Docket Number | MS1-794US |

| | NON PATENT LITERATURE DOCUMENTS | | | | | | | |
|-----------------------|---------------------------------|---|----------------|--|--|--|--|--|
| Examiner Initiats* | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² | | | | | |
| ANT | | Malvar,"A Modulated Complex Lapped Transform and its Applications to Audio Processing" IEEE ICASSP'99 Phoenix AZ. March 1999 pages 1-4. | | | | | | |
| AU | | Mihçak et al.,"A Perceptual Audio Hashing Algorithm: A Tool For Robust Audio Identification and Information Hiding" Proceedings of the Information Hiding Workshop 2001 15 pages. | | | | | | |
| AAT | | Moulin et al.,"A Framework for Evaluating the Data-Hiding Capacity of Image Sources" IEEE Transactions on Image Processing Vol. 11 No. 9 September 2002 pages 1-14. | | | | | | |
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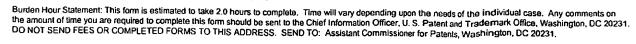
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| Group Art Unit | 2621 | | | |
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| ANT | | 4773039 | | Zamora | 09/20/1988 | 364/900 | |
| DAT | | 5774588 | | Li | 06/30/1998 | 382/230 | |
| AN AN AG | | 6081893 | 4 | Grawrock et al. | 06/27/2000 | 713/183 | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁵ Applicant is to place a check mark here if English language Translation is attached.



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